Approved For Release 2007/07/25 : CIA-RDP80-00810A005300420002-8 CENTRAL INTELLIGENCE AGENCY REPORT INFORMATION REPORT CD NO. COUNTRY East Germany DATE DISTR. 16 November 1954 25X1 SUBJECT 1955 Research Projects of the Crystal NO. OF PAGES Structure Analysis Department of the Academy Institute for Medicine and Biology PLACE NO. OF ENCLS. 25X1 (LISTED BELOW) **ACQUIRED** DATE OF SUPPLEMENT TO INFO. REPORT NO. THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 753 AND 794, OF THE U.S. CODE, AS AMERICED. ITS TRANSMISSION OR REVEL ATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PRINCIPL IS PROMISTED BY LAW THE REPRODUCTION OF THIS FORM IS PROMISTED. 25X1 THIS IS UNEVALUATED INFORMATION able lists the resear a cod development projects to be a) for tructal Structure s 1995 by the North C p (Asbetta Analysis in the East German Academy Institute for Medicine and Biology in Berlin-Buch. These projects have received preliminary approval by 25X1 the State Planning Commission and the Central Office for Research and Technology (ZAFT). 2. The projects are listed in the form in which approval was applied for. Each project is designated by plan number, which in all the cases listed below is 400 309/h, and by a research project number. Furthermore, the application is drafted according to the following key: 1,1: Subject of project 1,2: Short designation of the project 1,3: Scientific-technical aim of the project, and/or its technical 1,4: Size of the project and methods of carrying it out 1,5: Economic aim of the project 1,7: Result of coordination with the Working Circles (Arbeitskreise) 1,8: Suborders for the completion of the project placed elsewhere. 3. The 1955 Research and Development Projects: a. Research Project Number F 4-7, carried out under the supervision of Eng. Walter Troisch. 1,1: Development of an electr malog computer for the dire g out theses. 1 1,2: Fourier device. prier synthesis device, the result of which 1,3: Two-dim can be made visible within a few minutes lines on the luminescent screen of a Brau this device the numberital evaluation will 1.4: Experimental testing of a one-dimensional and a two-dimensional test machine. Construction experiments. 25X1 1,5: Increase of the productivity of scientific work. DISTRIBUTION X NSRB STATE X AIR #X F81 OSI EV ARMY

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- 2 -

b. Research Project Number F 5-1, carried out by Dipl. Phys. Karl-Heinz Jost.

1,1: X-ray structural study of chamazulan

1,2: Azulen analysis.

1,3: Determining the structure of chamazulence

1,4: X-ray structure analysis of monocrystals of chamazulene.
compounds.

1,5: Increase of scientific knowledge.

- 1,7: The project will be carried out after coordination when Prof. Jung (fnu), in the Pharmacological Department, with camomile oil made available by him.
- c. Research Project Number F 5-2, carried out under the supervision of Dr. Kaete Dornberger.
 - 1,1: Determination of the electron aution in cadmium sulfide and other semi

1,2: Electron density d

- 1,3: The qualities of determination of determination of determination of determination.
- 1,4: Most exact determination possible of the intensities of powder and monocrystal diagrams.
- 1,5: Increase of scientific knowledge.
- d. Research Project Number F 5-3, carried out under the supervision of Dr. Kaete Dornberger.
 - 1,1: Study of a number of triphenyl-pyrazolines for the purpose of determining the influence of various substitutions on the structural frame and the electron density distribution in the structural frame.

1,2: Structural study of triphenyl-pyrazolines.

- 1,3: A contribution to the clarification of the character of conjugated double compounds.
- 1,4: X-ray monocrystal diagrams and their evaluation.
- 1,5: An increase of scientific knowledge.
- e. Research Project Number F 5-4, carried out under the supervision of Dr. Kaete Dornberger.
 - 1,1: Structural study with X-rays of various organic substances.

1,2: Structural study of organic substances.

1,3: Determination of the chemical structure.

- 1,4: X-ray momocrystal diagrams and their evaluation.
- 1,5: Increase of scientific knowledge.
- f. Research Project Number F 5-5, carried out under the supervision of Dr. Kaete Dornberger.
 - 1,1: Structural study with X-rays of various inorganic substances.

1,2: Structural study of inorganic substances.

1,3: Determination of the structure.

- 1,4: X-ray monocrystal diagrams and their evaluation.
- 1,5: Increase of scientific knowledge.
- g. Research Project Number F 5-6, carried out under the supervision of Dipl. Phys. Guenter Heide.
 - 1,1: Structural study of sxanthocillin and xanthocillin derivates.

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1.2: Xanthocillin study.

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- 3 -

- 1,3: Clarification of the chemical structure of xanthocillin.
- 1,4: X-ray monocrystal diagrams and their evaluation.
- 1,5: Increase of scientific knowledge and basic work for the development of other antibiotics by VEB Arzneimittelwerk Dresden.
- H. Research Project Number F 5-7, carried out under the supervision of Ernst Hoehne.
 - 1,1: Structural study of betechten.²
 - 1,2: Betechten analysis.
 - 1,3: Determination of the grid constant and spatial groups for the chemical and mineralogical characterization of betechten. Possible determination of the location of its atoms.
 - 1,5: Increase of scientific knowledge.

1/	Comment. This development will be carried over from 1953 and 1954.	
2/	Comment. Betechten is	25X
disco	Comment. Betechten is a new mineral substance alleged to be overed by a Russian named Betechtin. This project was taken up r Prof. Schueller (fnu), of the Mineralogical Institute of Berlin	25X
Humbo Medio	oldt University convinced the personnel of the Institute for cine and Biology of the scientific importance of the Russian's	a.

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